



Contents Vol. 84 (2003/2004)

<i>Publisher's note</i>	1
The effects of enhanced phytoplankton production on iron speciation and removal in mesocosm experiments in a landlocked basin of Hopavågen, Norway M. Öztürk, O. Vadstein and E. Sakshaug	3
Shipboard analytical intercomparison of dissolved iron in surface waters along a north–south transect of the Atlantic Ocean A.R. Bowie, E.P. Achterberg, S. Blain, M. Boye, P.L. Croot, H.J.W. de Baar, P. Laan, G. Sarthou and P.J. Worsfold	19
Effect of pH, light, and temperature on Fe–EDTA chelation and Fe hydrolysis in seawater W. Sunda and S. Huntsman	35
Hydrothermal signatures in the southern Okinawa Trough detected by the sequential extraction of settling particles S.-C. Hsu, F.-J. Lin, W.-L. Jeng, Y.-c. Chung and L.-M. Shaw	49
The age of microbial carbonate structures grown at methane seeps in the Black Sea with an implication of dating of the seeping methane S.B. Gulín, G.G. Polikarpov and V.N. Egorov	67
A long pathlength liquid-core waveguide sensor for real-time $p\text{CO}_2$ measurements at sea Z.A. Wang, W.-J. Cai, Y. Wang and B.L. Upchurch	73
Kinetics of iron complexation by dissolved natural organic matter in coastal waters A.L. Rose and T.D. Waite	85
Photochemical weathering study of Brazilian petroleum by EPR spectroscopy C.L. Barbosa Guedes, E. Di Mauro, V. Antunes and A.S. Mangrich	105
Salt marsh submarine groundwater discharge as traced by radium isotopes M.A. Charette, R. Splivallo, C. Herbold, M.S. Bollinger and W.S. Moore	113
Source apportionment of polycyclic aromatic hydrocarbons in a coastal lagoon by molecular and isotopic characterisation D. Fabbri, I. Vassura, C.-G. Sun, C.E. Snape, C. McRae and A.E. Fallick	123
<i>Guide for Authors</i>	137
A sediment trap flux study for trace metals under seasonal aspects in the stratified Baltic Sea (Gotland Basin; 57°19.20'N; 20°03.00'E) C. Pohl, A. Löffler and U. Hennings	143
Processes regulating oxygen and carbon dioxide in surface waters west of the Antarctic Peninsula C.J. Carrillo, R.C. Smith and D.M. Karl	161

A direct instrument comparison for measurement of total dissolved nitrogen in seawater J.H. Sharp, A.Y. Beauregard, D. Burdige, G. Cauwet, S.E. Curless, R. Lauck, K. Nagel, H. Ogawa, A.E. Parker, O. Primm, M. Pujo-Pay, W.B. Savidge, S. Seitzinger, G. Spyres and R. Styles	181
Source characterization of dissolved organic matter in a subtropical mangrove-dominated estuary by fluorescence analysis R. Jaffé, J.N. Boyer, X. Lu, N. Maie, C. Yang, N.M. Scully and S. Mock	195
Sea-to-air flux of contaminants via bubbles bursting. An experimental approach for tributyltin R. Saint-Louis and E. Pelletier	211
Temporal variability of excess nitrate in the subtropical mode water of the North Atlantic Ocean N.R. Bates and D.A. Hansell	225
Excess nitrate and nitrogen fixation in the North Atlantic Ocean D.A. Hansell, N.R. Bates and D.B. Olson	243
Author Index Vol. 84 (2003/2004)	267
Keyword Index Vol. 84 (2003/2004)	271
Contents Vol. 84 (2003/2004)	273

